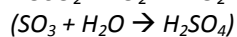
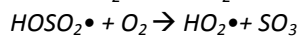
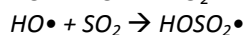
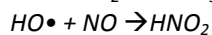
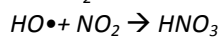
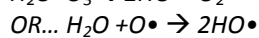
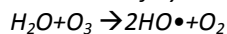


TED07 – (Part E11) Further Acid Deposition for HL

Name _____

1. E.11.1 Describe the mechanism of acid deposition caused by the oxides of nitrogen and oxides of sulfur. (2)

Formation of hydroxyl radicals:



- a. How are the hydroxide radicals formed?
- b. What is the equation for the production nitrous acid?
 - i. Why does this material not remain?
- c. What is the equation for the production of nitric acid?
- d. What is the equation for the production of Sulfurous acid?
 - i. Why does this material not remain?
- e. What is the equation for the production of Sulfuric acid?

- $$NH_4^+ + 2O_2 \rightarrow 2H^+ + NO_3^- + H_2O$$

- c. Explain the process of the nitrification of soil including both steps by bacterium: